CLAIM LISTING (showing claim amendments)

~~Claims~~**What is claimed is:**

1. (Currently Amended) ~~A method of determining the condition of a turbine blade (2, 4) in a compressor (1) and utilizing the collected information in an estimation of the lifetime of the turbine blade (2, 4), characterized in that a measured value reflecting the condition of the turbine blade (2, 4) is generated by a vibration sensitive sensor (10) connected to the compressor's (1) casing (6).~~

A method of determining condition of a turbine blade and utilizing collected information for estimating a lifetime of the blade as an indicator for when a rotating stall is occurring in a compressor's turbine blades, said method comprising:

utilizing a vibration sensitive sensor that is fixed to a casing of the compressor whereby measured values from the vibration sensitive sensor are filtered and allocated to respective frequencies, with measured values within respective frequency groups being given one of a minimum and a maximum value limit, and whereby occurrence of said rotating stall, as mainly indicated by frequency fluctuations which deviate from a normal blade frequency, is indicated and included in a lifetime estimation for the turbine blade when a blade pass frequency of a compressors stage in question starts to fluctuate.

2. Claims 2-4 (Canceled)